Title: Newton's Law of Cooling: Continuous Model and Euler's Method

Brief Overview:

Students will explore Newton's Law of Cooling experimentally using the CBL. Additionally, they will explore the mathematical model for Newton's Law of Cooling using Euler's Method.

Links to NCTM Standards:

• Mathematics as Problem Solving

Students will investigate the cooling of water and demonstrate the ability to collect and make inferences from their data. They will also demonstrate their ability to solve mathematical problems through the use of graphical analysis and data analysis.

• Mathematics as Communication

Students will explain procedures and processes orally. They will express mathematical assumptions both orally and in writing.

• Mathematics as Reasoning

Students will make conjectures concerning data, their graphs and changes in data.

• Mathematical Connections

Students will make connections between mathematical functions and experimental data.

• Algebra

Students will solve differential equations and represent situations with variable quantities.

• Calculus

Students will apply the slope of a graph to data analysis. They will analyze graphs of transcendental functions.

Grade/Level:

Grades 11-12 (Calculus AB and BC)

Duration/Length:

This activity will take 2-3 days.

Prerequisite Knowledge:

Students should have working knowledge of the following skills:

- The exponential function
- Spreadsheets
- Graphing Calculators and the CBL
- Slope of functions
- Solving differential equations

Objectives:

Students will:

- work cooperatively in groups.
- collect and analyze data from the CBL.
- solve a differential equation.
- create a spreadsheet to model the cooling behavior of water.
- compare the experimental data to the mathematical model.

Materials/Resources/Printed Materials:

- Heat source (microwave, hot plate)
- Container for water
- CBL and TI Calculator
- Computers with spreadsheet software
- Teacher hand-outs
- Student hand-outs

Development/Procedures:

- Students will set up the CBL and collect temperature data as boiling water cools.
- Students will identify the nature of the graph of their data.
- Students will solve the differential equations that model the physical properties of cooling liquids.
- Students will use a spreadsheet to generate values that will be analyzed using Euler's Method.

Evaluation:

• Students will successfully complete the enclosed worksheets. Solutions are provided for the instructor.

Extension/Follow Up:

- Students may use data collected in the CBL lab to generate the exponential function for Newton's Law of Cooling and to verify the accuracy of their mathematical model.
- Students may analyze the cooling behavior of substances other than water, including solids.

Authors:

Sharon Baker Thomas Jefferson High School Fairfax County, VA Sue Jenkins St. Catherine's School Richmond, VA

I. Set up and data collection

Heat a container of water to approximately boiling temperature, using a hot pot or microwave if available. Connect the TI calculator to the CBL unit, turning on both. Choose the program CHILL (from Real-World Math with the CBLTM System by C. Brueningsen et al, 1994) from the calculator's program file. Run the program and follow its directions as given on your calculator screen. When you are finished, examine the graph on your calculator's window.

II. Analysis

A. Graph Analysis

1. What type of function does this graph appear to be?

2. What is the ambient room temperature? _____ What temperature does the graph approach as time increases? _____

B. Analysis of the Mathematical Model using Calculus

Newton's Law of Cooling states that the change in temperature of a substance is proportional to the difference between its temperature and the ambient room temperature.

The differential equation representing this model is:

$$\frac{dy}{dt} = k \text{ (y-T)}$$

where y represents temperature of the liquid, t represents time and T is a constant, representing ambient temperature.

1. Solve the differential equation above, using your data in order to calculate the constants. Use your initial point when t = 0 for your first ordered pair (t,y). Choose one other ordered pair from your data. Show all work.

2. Enter the equation generated in #1 above into the graphing calculator. How does your model compare with the actual data? How do you account for any differences?

Newton's Law of Cooling

Name _____

Spreadsheet, Euler's Method Exercise

Newton's Law of Cooling states that the change in temperature of a substance is proportional to the difference between its temperature and the ambient room temperature.

The differential equation representing this model is:

$$\frac{dy}{dt} = k (y-T)$$

where y represents temperature of the liquid, t represents time and T is a constant, representing ambient temperature

According to Euler, $\frac{dy}{dt}$ can be approximated, for small values of h, by the slope of the line between two

consecutive points as follows:

$$\frac{y(t+h) - y(t)}{h} = k (y(t)-T) \text{ where } y(t) \text{ represents the temperature at time t.}$$

Solving for y(t+h):

$$y(t + h) = hk (y(t) - T) + y(t)$$

Expressing the above equation recursively:

$$\mathbf{Y}_{i+1} = \mathbf{h}\mathbf{k} \ (\mathbf{Y}_i - \mathbf{T}) + \mathbf{Y}_i$$

I. Directions for Spreadsheet Activity:

Newton's Law of Cooling			
T = ambient temperature (degrees F)	60		
h = change in time (minutes)	1		
k = rate of cooling (rate of change/unit of time)	-0.02877		
Y= temperature at time t (degrees F)	Yo =	100	
Time (Minutes)	Temperature (degrees F)		
0	100		
1	(Your computed value for Y_{i+1})		

- 1. Using the example above, enter the documentation for the spreadsheet, including:
 - a. Title
 - b. Names of variables and constants
 - c. Values of variables and constants
 - d. Units of measure
 - e. Column labels
- 2. Fill the Time column with 100 cells (or more, if necessary according to your value of h).

- 3. Enter the recursive formula for Temperature, Y_{i+1} and fill down your Temperature column.
- 4. Graph temperature vs. time (if your software supports this option.) For example, Microsoft Excel allows you to insert a chart with line graphs.

II. Analysis of Results:

- 1. What is the significance of the asymptote of your graph? Explain your answer.
- 2. How would your results differ if Y_o were 60 degrees? Explain your answer.
- 3. Change your parameters from the given sample to the following, and answer the questions, which follow. a. $T = 90^{\circ}$, $Y_{o} = 1500^{\circ}$, k = -.31403, k = 1 minute.
 - i. What does the asymptote of your graph represent? Explain your answer.
 - ii. Find Y at time = 1 minute
 - iii. Reduce the value of h. How does this new value affect your results? Complete the table below for various values of h.

h (minutes)	Value of Y at $t = 1$ min.

- b. $T = 90^{\circ}$, $Y_{o} = 45^{\circ}$, k = -.03, h = 1 minute.
 - i. What does the asymptote of your graph represent? Explain your answer.
 - ii. Explain the shape of this graph. Why is it different from previous graphs?
 - iii. Find Y at time = 1 minute.
 - iv. Reduce the value of h. How does this new value affect your results? Complete the table below for various values of h.

h (minutes)	Value of Y at $t = 1$ min.

		on's Law of Cooling Extension: Namearison of Collected Data to Spreadsheet Model
		the initial parameters on your spreadsheet. Use the <i>values generated</i> during the CBL lab for ambient sture (T) and initial temperature (Y_0) . Use your <i>computed values</i> for rate of cooling (k) .
Ex	plor	ations:
1.		er the same value for h (change in time) as used by the CBL program. Compare the values on the culator to the values on the spreadsheet.
	a.	How do these values compare?
	b.	How do you account for differences between the mathematical model and the data-generated model?
2.	Ch	ange the values of h and watch the behavior of the temperatures in the spreadsheet.
	a.	What happens to the values of the temperature as h becomes larger?
	b.	What happens to the values of the temperature as h becomes smaller?

3. Input various values for the initial temperature (Y_o) . How does the proximity of Y_o to the ambient temperature affect the graph?

Newton's Law of Cooling: Data Collection Using the CBL

I. Set up and data collection

TEACHER'S NOTE: THERE ARE MANY OTHER SOURCES FOR CBL PROGRAMS FOR NEWTON'S LAW OF COOLING. SEE THE TI INTERNET SITE (www.ti.com) FOR A LIST OF RESOURCES.

Name: SOLUTION KEY

II. Analysis

A. Graph Analysis

- 1. What type of function does this graph appear to be? **EXPONENTIAL**
- 2. What is the ambient room temperature? (ANSWERS VARY) What temperature does the graph approach as time increases? THE AMBIENT TEMPERATURE

B. Analysis of the Mathematical Model using Calculus

1. Solution worked for initial values of $T=60^{\circ}$, $Y_{o}=100^{\circ}$, and $Y(10)=90^{\circ}$. Students' results will vary according to their own data.

$$\frac{dy}{dt} = k \text{ (y-T)}$$

Now separate the variables:

$$\frac{dy}{y - T} = k dt$$

Now integrate both sides:

$$\int \frac{dy}{y - T} = \int k \, dt$$

$$ln|y-T| = kt + C$$

$$e^{kt + C} \quad = \ y - T$$

$$C e^{kt} = y - T$$

$$Y = Ce^{kt} + T$$

Now solve for C and k, using 2 ordered pairs (t,y) from the data gathered.

From values given above,
$$k = .1 * ln (.75) \approx -.02877$$
 and $C = 40$

2. Enter the equation generated in #1 above into the graphing calculator. How does your model compare with the actual data? How do you account for any differences?

THE GRAPHS SHOULD BE VERY SIMILAR. DIFFERENCES MAY BE DUE TO THE FACT THAT THE SOLUTION OF THE DIFFERENTIAL EQUATION IS A CONTINUOUS FUNCTION, WHEREAS THE CBL EXPERIMENT MEASURES AT DISCRETE TIME INTERVALS.

Newton's Law of Cooling:

Spreadsheet, Euler's Method Exercise

- I. Directions for Spreadsheet Activity: SEE ATTACHED SPREADSHEET
- II. Analysis of Results:
- 1. What is the significance of the asymptote of your graph? Explain your answer.

THE AMBIENT TEMPERATURE. THE SUBSTANCE WILL EVENTUALLY REACH ROOM TEMPERATURE (UNLIKE THE MATHEMATICAL MODEL, WHOSE FUNCTION IS ASYMPTOTIC.)

2. How would your results differ if Y₀ were 60 degrees? Explain your answer.

THE GRAPH WOULD BE A CONSTANT FUNCTION AT THE AMBIENT TEMPERATURE. THERE IS NO DIFFERENCE BETWEEN THE INITIAL TEMPERATURE AND AMBIENT TEMPERATURE.

- 3. Change your parameters from the given sample to the following, and answer the questions which follow.
 - a. $T = 90^{\circ}$, $Y_o = 1500^{\circ}$, k = -.31403, h = 1 minute.
 - i. What does the asymptote of your graph represent? Explain your answer.

THE AMBIENT TEMPERATURE. THE SUBSTANCE WILL EVENTUALLY REACH ROOM TEMPERATURE (UNLIKE THE MATHEMATICAL MODEL, WHOSE FUNCTION IS ASYMPTOTIC.)

- ii. Find Y at time = 1 minute.
- iii. Change the value of h. How does this new value affect your results? Complete the table below for various values of h.

h (minutes)	Value of Y at $t = 1$ min.
1	1057.218
.1	1114.826
.01	1119.492

Name: SOLUTION KEY

- b. $T = 90^{\circ}$, $Y_0 = 45^{\circ}$, k = -.03, h = 1 minute.
 - i. What does the asymptote of your graph represent? Explain your answer.

THE AMBIENT TEMPERATURE. THE SUBSTANCE WILL EVENTUALLY REACH ROOM TEMPERATURE (UNLIKE THE MATHEMATICAL MODEL, WHOSE FUNCTION IS ASYMPTOTIC.)

ii. Explain the shape of this graph. Why is it different from previous graphs?

BECAUSE THE INITIAL TEMPERATURE IS BELOW AMBIENT TEMPERATURE, THE SUBSTANCE WARMS RATHER THAN COOLS. THEREFORE THE FUNCTION IS INCREASING.

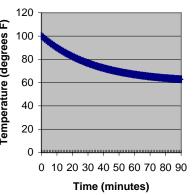
- iii. Find Y at time = 10 minute.
- iv. Increase the value of h. How does this new value affect your results? Complete the table below for various values of h.

h (minutes)	Value of Y at $t = 10 \text{ min}$
1	56.816
2	56.974
5	57.488

Newton's Law of Cooling

Newton's Law of Cooling	I	1
T = ambient temperature (degrees F)	60	
h = change in time (minutes)	1	
k = rate of change/unit of time	-0.02877	
Y=temperature at time t (degrees F)		100
r=temperature at time t (degrees F)	10-	100
Time (minutes)	Temperature (degrees	<u> </u>
0	100	
1	98.8492	
2	97.73150852	
3	96.64597302	
4	95.59166837	
5	94.56769607	_
6	93.57318346	
7	92.60728297	<u> </u>
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14	86.58087257	
15	85.81614086	
16	85.07341049	
17	84.35204847	
18	83.65144004	
19	82.97098811	
20	82.31011278	
21	81.66825083	
22	81.04485526	
23	80.43939477	
24	79.85135338	
25	79.28022995	
26	78.72553773	
27	78.18680401	
28	77.66356966	
29	77.15538876	
30	76.66182823	
31	76.18246743	
32	75.71689784	
33	75.26472269	
34	74.82555662	
35	74.39902535	
36	73.98476539	
37	73.58242369	
38	73.19165736	
39	72.81213338	
40	72.4435283	
41	72.08552799	4
42	71.73782735	
43	71.40013006	

Rate of Cooling



44	71.07214832
45	70.75360261
46	70.44422146
47	70.14374121
48	69.85190578
49	69.56846645
50	69.29318167
51	69.02581683
52	68.76614408
53	68.51394212
54	68.268996
55	68.03109699
56	67.80004233
57	67.57563511
58	67.35768409
59	67.14600352
60	66.940413
61	66.74073731
62	66.5468063
63	66.35845468
64	66.17552194
65	65.99785218
66	65.82529397
67	65.65770026
68	65.49492822
69	65.33683914
70	65.18329828
71	65.03417479
72	64.88934158
73	64.74867522
74	64.61205583
75	64.47936699
76	64.3504956
77	64.22533184
78	64.10376904
79	63.98570361
80	63.87103492
81	63.75966524
82	63.65149967
83	63.54644603
84	63.44441477
85	63.34531896
86	63.24907414
87	63.15559827
88	63.06481171
89	62.97663708
90	62.89099923
91	62.80782518
92	62.72704405
93	62.64858699
94	62.57238715
95	62.49837957
3 0	02.49037937

96	62.42650119
97	62.35669075
98	62.28888875
99	62.22303743
100	62.15908064

Newton's Law of Cooling SOLUTION KEY

Newton's Law of Cooling	SOLUTION KEY	
T = ambient temperature (degrees F)		
h = change in time (minutes)	1	
k = rate of change/unit of time	-0.02877	
Y=temperature at time t (degrees F)	Y _o =	100
Time (minutes)	Temperature (degrees F)	
0	=\$C\$6	
=A9+\$B\$4	=\$B\$4*\$B\$5*(B9-\$B\$3)+B9	
=A10+\$B\$4	=\$B\$4*\$B\$5*(B10-\$B\$3)+B10	
=A11+\$B\$4	=\$B\$4*\$B\$5*(B11-\$B\$3)+B11	
=A12+\$B\$4	=\$B\$4*\$B\$5*(B12-\$B\$3)+B12	
=A13+\$B\$4	=\$B\$4*\$B\$5*(B13-\$B\$3)+B13	
=A14+\$B\$4	=\$B\$4*\$B\$5*(B14-\$B\$3)+B14	
=A15+\$B\$4	=\$B\$4*\$B\$5*(B15-\$B\$3)+B15	
=A16+\$B\$4	=\$B\$4*\$B\$5*(B16-\$B\$3)+B16	
=A17+\$B\$4	=\$B\$4*\$B\$5*(B17-\$B\$3)+B17	
=A18+\$B\$4	=\$B\$4*\$B\$5*(B18-\$B\$3)+B18	
=A19+\$B\$4	=\$B\$4*\$B\$5*(B19-\$B\$3)+B19	
=A20+\$B\$4	=\$B\$4*\$B\$5*(B20-\$B\$3)+B20	
=A21+\$B\$4	=\$B\$4*\$B\$5*(B21-\$B\$3)+B21	
=A22+\$B\$4	=\$B\$4*\$B\$5*(B22-\$B\$3)+B22	
=A23+\$B\$4	=\$B\$4*\$B\$5*(B23-\$B\$3)+B23	
=A24+\$B\$4	=\$B\$4*\$B\$5*(B24-\$B\$3)+B24	
=A25+\$B\$4	=\$B\$4*\$B\$5*(B25-\$B\$3)+B25	
=A26+\$B\$4	=\$B\$4*\$B\$5*(B26-\$B\$3)+B26	
=A27+\$B\$4	=\$B\$4*\$B\$5*(B27-\$B\$3)+B27	
=A28+\$B\$4	=\$B\$4*\$B\$5*(B28-\$B\$3)+B28	
=A29+\$B\$4	=\$B\$4*\$B\$5*(B29-\$B\$3)+B29	
=A30+\$B\$4	=\$B\$4*\$B\$5*(B30-\$B\$3)+B30	
=A31+\$B\$4	=\$B\$4*\$B\$5*(B31-\$B\$3)+B31	
=A32+\$B\$4	=\$B\$4*\$B\$5*(B32-\$B\$3)+B32	
=A33+\$B\$4	=\$B\$4*\$B\$5*(B33-\$B\$3)+B33	
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=A35+\$B\$4	=\$B\$4*\$B\$5*(B35-\$B\$3)+B35	
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=A37+\$B\$4	=\$B\$4*\$B\$5*(B37-\$B\$3)+B37	
=A38+\$B\$4	=\$B\$4*\$B\$5*(B38-\$B\$3)+B38	
=A39+\$B\$4	=\$B\$4*\$B\$5*(B39-\$B\$3)+B39	
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=A45+\$B\$4	=\$B\$4*\$B\$5*(B45-\$B\$3)+B45	
=A46+\$B\$4	=\$B\$4*\$B\$5*(B46-\$B\$3)+B46	
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=A49+\$B\$4	=\$B\$4*\$B\$5*(B49-\$B\$3)+B49	
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=A60+\$B\$4		,
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=A62+\$B\$4 =A63+\$B\$4 =A63+\$B\$4 =A63+\$B\$4 =A63+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A66+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A70+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B71 =A74+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B72 =A73+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A76+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A76+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A78+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A79+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A79+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A81+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A81+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A81+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A81+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B74 =A81+\$B\$4 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B84 =B\$4*\$B\$5*(B81-\$B\$3)+B94 =A91+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B94 =A91+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B94 =A92+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B94 =A92+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B94 =A92+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B94 =		
=A63+\$B\$4 =A64+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B65 =A66+\$B\$4 =A65+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B68-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B68-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B69-\$B\$3)+B69 =A70+\$B\$4 =B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =A72+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B71 =A72+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A78+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A78+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A78+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A78+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A84+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A84+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A84+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B80 =A81+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B80 =A81+\$B\$4 =B\$4*\$B\$5*(B88-\$B\$3)+B84 =B\$4*\$B\$5*(B89-\$B\$3)+B84 =B\$4*\$B\$5*(B89-\$B\$3)+B84 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =A91+\$B\$4 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =A99+\$B\$4 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(,
=A64+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =A65+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B65 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A70+\$B\$4 =A59+\$B\$4 =B\$4*\$B\$5*(B69-\$B\$3)+B69 =A70+\$B\$4 =\$B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =\$B\$4*\$B\$5*(B71-\$B\$3)+B71 =A72+\$B\$4 =\$B\$4*\$B\$5*(B71-\$B\$3)+B72 =A73+\$B\$4 =\$B\$4*\$B\$5*(B72-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A78+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A81+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A82+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A88+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A92+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A9		` ,
=A65+\$B\$4 =A66+\$B\$4 =A66+\$B\$4 =A66+\$B\$4 =A67+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B66 =A67+\$B\$4 =A68+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A69+\$B\$4 =B\$4*\$B\$5*(B66-\$B\$3)+B68 =A70+\$B\$4 =B\$4*\$B\$5*(B60-\$B\$3)+B69 =A70+\$B\$4 =A70+\$B\$4 =B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =B\$4*\$B\$5*(B70-\$B\$3)+B71 =A72+\$B\$4 =B\$4*\$B\$5*(B70-\$B\$3)+B72 =A73+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B74 =A76+\$B\$4 =B\$4*\$B\$5*(B73-\$B\$3)+B74 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A78+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A78+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A78+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A78+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A79+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A81+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A81+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A81+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A81+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A81+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A81+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5		
=A66+\$B\$4 =A67+\$B\$4 =A67+\$B\$4 =A67+\$B\$4 =B\$4*\$B\$5*(B67-\$B\$3)+B67 =A68+\$B\$4 =A69+\$B\$4 =A69+\$B\$4 =B\$4*\$B\$5*(B69-\$B\$3)+B69 =A70+\$B\$4 =B\$4*\$B\$5*(B69-\$B\$3)+B79 =A70+\$B\$4 =\$B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =\$B\$4*\$B\$5*(B72-\$B\$3)+B71 =A72+\$B\$4 =\$B\$4*\$B\$5*(B72-\$B\$3)+B72 =A73+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B78 =A89+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B78 =A89+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =B\$4*\$B\$5*(B83-\$B\$3)+B84 =B\$4*\$B\$5*(B83-\$B\$3)+B84 =B\$4*\$B\$5*(B83-\$B\$3)+B84 =B\$4*\$B\$5*(B80-\$B\$3)+B84 =B\$4*\$B\$5*(B80-\$B\$3)+B84 =B\$4*\$B\$5*(B80-\$B\$3)+B84 =B\$4*\$B\$5*(B80-\$B\$3)+B84 =B\$4*\$B\$5*(B80-\$B\$3)+B84 =B\$4*\$B\$5*(B90-\$B\$3)+B84 =A89+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A92+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A92+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A93+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B\$5*(B90-\$B\$3)+B94 =B\$4*\$B		` ,
=A67+\$B\$4 =\$B\$4*\$B\$5*(B67-\$B\$3)+B67 =A68+\$B\$4 =A68+\$B\$4 =\$B\$4*\$B\$5*(B68-\$B\$3)+B68 =A70+\$B\$4 =\$B\$4*\$B\$5*(B69-\$B\$3)+B70 =A71+\$B\$4 =\$B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =\$B\$4*\$B\$5*(B71-\$B\$3)+B71 =A72+\$B\$4 =\$B\$4*\$B\$5*(B71-\$B\$3)+B72 =A73+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B78 =A89+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A87+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =A89+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B80 =A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A97+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A97+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A97+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B90-\$B\$3)+B9		` ,
=A68+\$B\$4 =A69+\$B\$4 =A69+\$B\$4 =A70+\$B\$4 =A70+\$B\$4 =A71+\$B\$4 =A72+\$B\$4 =A72+\$B\$4 =B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =A72+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B71 =A72+\$B\$4 =B\$4*\$B\$5*(B71-\$B\$3)+B72 =A73+\$B\$4 =B\$4*\$B\$5*(B72-\$B\$3)+B72 =A73+\$B\$4 =B\$4*\$B\$5*(B72-\$B\$3)+B73 =A74+\$B\$4 =B\$4*\$B\$5*(B74-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B74 =A75+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B75 =A76+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B77 =A78+\$B\$4 =B\$4*\$B\$5*(B78-\$B\$3)+B78 =A79+\$B\$4 =B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =B\$4*\$B\$5*(B83-\$B\$3)+B84 =A84+\$B\$4 =B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =B\$4*\$B\$5*(B88-\$B\$3)+B84 =A86+\$B\$4 =B\$4*\$B\$5*(B88-\$B\$3)+B84 =A88+\$B\$4 =B\$4*\$B\$5*(B88-\$B\$3)+B84 =A89+\$B\$4 =B\$4*\$B\$5*(B89-\$B\$3)+B94 =A90+\$B\$4 =A91+\$B\$4 =B\$4*\$B\$5*(B90-\$B\$3)+B90 =B\$4*\$B\$5*(B90-\$		` ,
=A69+\$B\$4 =A70+\$B\$4 =SB\$4*\$B\$5*(B69-\$B\$3)+B69 =A70+\$B\$4 =\$B\$4*\$B\$5*(B70-\$B\$3)+B70 =A71+\$B\$4 =\$B\$4*\$B\$5*(B71-\$B\$3)+B71 =A72+\$B\$4 =\$B\$4*\$B\$5*(B72-\$B\$3)+B72 =A73+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B74-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B78 =A80+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B78 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A84+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B84 =\$B\$4*\$B\$5*(B89-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B87 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B99 =A91+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B94 =A91+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B94 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3		
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=A72+\$B\$4 =\$B\$4*\$B\$5*(B72-\$B\$3)+B72 =A73+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B74-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B78-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B94 =\$A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =\$A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10		, , ,
=A73+\$B\$4 =\$B\$4*\$B\$5*(B73-\$B\$3)+B73 =A74+\$B\$4 =\$B\$4*\$B\$5*(B74-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B75-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B78-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =\$B\$4*\$B\$5*(=\$B\$4*\$B\$5*(B72-\$B\$3)+B72
=A74+\$B\$4 =\$B\$4*\$B\$5*(B74-\$B\$3)+B74 =A75+\$B\$4 =\$B\$4*\$B\$5*(B75-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B78-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3	=A73+\$B\$4	, ,
=A75+\$B\$4 =\$B\$4*\$B\$5*(B75-\$B\$3)+B75 =A76+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B78 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B84 =\$B\$4*\$B\$5*(B80-\$B\$3)+B86 =\$A87+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B86 =\$A87+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B88 =\$B\$4*\$B\$5*(B80-\$B\$3)+B89 =\$A90+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B90 =\$A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B91 =\$A92+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B91 =\$A92+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B94		, ,
=A76+\$B\$4 =A77+\$B\$4 =\$B\$4*\$B\$5*(B76-\$B\$3)+B76 =A77+\$B\$4 =\$B\$4*\$B\$5*(B77-\$B\$3)+B77 =A78+\$B\$4 =\$B\$4*\$B\$5*(B78-\$B\$3)+B78 =A79+\$B\$4 =\$B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94	=A75+\$B\$4	, ,
=A78+\$B\$4 =A79+\$B\$4 =A79+\$B\$4 =B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A99+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91	=A76+\$B\$4	, ,
=A78+\$B\$4 =A79+\$B\$4 =A79+\$B\$4 =B\$4*\$B\$5*(B79-\$B\$3)+B79 =A80+\$B\$4 =\$B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =\$B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A98+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A99+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91	=A77+\$B\$4	, ,
=A80+\$B\$4 =A81+\$B\$4 =B\$4*\$B\$5*(B80-\$B\$3)+B80 =A81+\$B\$4 =B\$4*\$B\$5*(B81-\$B\$3)+B81 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98	=A78+\$B\$4	=\$B\$4*\$B\$5*(B78-\$B\$3)+B78
=A81+\$B\$4 =A82+\$B\$4 =\$B\$4*\$B\$5*(B82-\$B\$3)+B82 =A83+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B83 =A84+\$B\$4 =\$B\$4*\$B\$5*(B83-\$B\$3)+B84 =A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B87-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B88 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B102-\$B\$3)+B10	=A79+\$B\$4	=\$B\$4*\$B\$5*(B79-\$B\$3)+B79
=A82+\$B\$4 =A83+\$B\$4 =SB\$4*\$B\$5*(B82-\$B\$3)+B82 =A84+\$B\$4 =A85+\$B\$4 =SB\$4*\$B\$5*(B84-\$B\$3)+B84 =A85+\$B\$4 =A85+\$B\$4 =SB\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =A87+\$B\$4 =SB\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =SB\$4*\$B\$5*(B87-\$B\$3)+B87 =A88+\$B\$4 =SB\$4*\$B\$5*(B88-\$B\$3)+B88 =A90+\$B\$4 =SB\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =SB\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =SB\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =SB\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =SB\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =SB\$4*\$B\$5*(B95-\$B\$3)+B94 =A95+\$B\$4 =SB\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =SB\$4*\$B\$5*(B97-\$B\$3)+B96 =A97+\$B\$4 =SB\$4*\$B\$5*(B97-\$B\$3)+B96 =A97+\$B\$4 =SB\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =SB\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =SB\$4*\$B\$5*(B10-\$B\$3)+B10 =A101+\$B\$4 =SB\$4*\$B\$5*(B10-\$B\$3)+B10	=A80+\$B\$4	=\$B\$4*\$B\$5*(B80-\$B\$3)+B80
=A83+\$B\$4 =A84+\$B\$4 =A85+\$B\$4 =A85+\$B\$4 =B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =A87+\$B\$4 =A88+\$B\$4 =B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =B\$4*\$B\$5*(B86-\$B\$3)+B87 =A88+\$B\$4 =B\$4*\$B\$5*(B88-\$B\$3)+B88 =A89+\$B\$4 =B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =B\$4*\$B\$5*(B92-\$B\$3)+B91 =A92+\$B\$4 =B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =B\$4*\$B\$5*(B93-\$B\$3)+B94 =A95+\$B\$4 =B\$4*\$B\$5*(B96-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10	=A81+\$B\$4	=\$B\$4*\$B\$5*(B81-\$B\$3)+B81
=A84+\$B\$4 =A85+\$B\$4 =A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B94-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10		=\$B\$4*\$B\$5*(B82-\$B\$3)+B82
=A85+\$B\$4 =\$B\$4*\$B\$5*(B85-\$B\$3)+B85 =A86+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B87-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B87-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B98	=A83+\$B\$4	=\$B\$4*\$B\$5*(B83-\$B\$3)+B83
=A86+\$B\$4 =A87+\$B\$4 =\$B\$4*\$B\$5*(B86-\$B\$3)+B86 =A87+\$B\$4 =\$B\$4*\$B\$5*(B87-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10	=A84+\$B\$4	=\$B\$4*\$B\$5*(B84-\$B\$3)+B84
=A87+\$B\$4 =\$B\$4*\$B\$5*(B87-\$B\$3)+B87 =A88+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10	=A85+\$B\$4	=\$B\$4*\$B\$5*(B85-\$B\$3)+B85
=A88+\$B\$4 =A89+\$B\$4 =\$B\$4*\$B\$5*(B88-\$B\$3)+B88 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B94-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10	=A86+\$B\$4	
=A89+\$B\$4 =\$B\$4*\$B\$5*(B89-\$B\$3)+B89 =A90+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B94-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10	=A87+\$B\$4	=\$B\$4*\$B\$5*(B87-\$B\$3)+B87
=A90+\$B\$4 =A91+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B90 =A91+\$B\$4 =\$B\$4*\$B\$5*(B91-\$B\$3)+B91 =A92+\$B\$4 =\$B\$4*\$B\$5*(B92-\$B\$3)+B92 =A93+\$B\$4 =\$B\$4*\$B\$5*(B93-\$B\$3)+B93 =A94+\$B\$4 =\$B\$4*\$B\$5*(B94-\$B\$3)+B94 =A95+\$B\$4 =\$B\$4*\$B\$5*(B95-\$B\$3)+B95 =A96+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B96-\$B\$3)+B96 =A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B90-\$B\$3)+B98 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10	=A88+\$B\$4	, , ,
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=A93+\$B\$4		,
=A94+\$B\$4	· · · · · · · · · · · · · · · · · · ·	, , ,
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=A96+\$B\$4		
=A97+\$B\$4 =\$B\$4*\$B\$5*(B97-\$B\$3)+B97 =A98+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B99 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B102-\$B\$3)+B10		,
=A98+\$B\$4 =\$B\$4*\$B\$5*(B98-\$B\$3)+B98 =A99+\$B\$4 =\$B\$4*\$B\$5*(B99-\$B\$3)+B99 =A100+\$B\$4 =\$B\$4*\$B\$5*(B100-\$B\$3)+B10 =A101+\$B\$4 =\$B\$4*\$B\$5*(B101-\$B\$3)+B10 =A102+\$B\$4 =\$B\$4*\$B\$5*(B102-\$B\$3)+B10		, , ,
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=A103+\$B\$4		
	[=A103+\$B\$4	=\$B\$4*\$B\$5*(B103-\$B\$3)+B10

=A104+\$B\$4	=\$B\$4*\$B\$5*(B104-\$B\$3)+B10
=A105+\$B\$4	=\$B\$4*\$B\$5*(B105-\$B\$3)+B10
=A106+\$B\$4	=\$B\$4*\$B\$5*(B106-\$B\$3)+B10
=A107+\$B\$4	=\$B\$4*\$B\$5*(B107-\$B\$3)+B10
=A108+\$B\$4	=\$B\$4*\$B\$5*(B108-\$B\$3)+B10